

Max's Magnificent Decimal Dash

Learning objective: To consolidate understanding of decimals, including place value, comparing, rounding, and converting decimals to fractions.

Join Max the monkey as he manages the community fruit stall! Use your knowledge of place value and decimals to solve these puzzles. Read each question carefully and show your working out.

Answer Key: 1. C; 2. True; 3. 0.45; 4. 0.8; 5. B; 6. False; 7. 0.009; 8. C; 9. True; 10. 0.75. Teacher Note: Ensure pupils justify their answers using place value columns for full marks.

Word bank: tenths · hundredths · thousandths · decimal point · equivalent · rounding · place value · fraction

1. Max is selling apples for £1.25. What is the value of the digit 2 in this number? A) 2 ones B) 2 tenths* C) 2 hundredths D) 2 thousandths (1 mark)

2. True or False: 0.7 is greater than 0.07. (1 mark)

3. Max has 45p. Write this as a decimal in pounds (£). (1 mark)

4. What is the equivalent fraction of 0.8 written in its simplest form? (Write your answer as a decimal equivalent of four-fifths). (1 mark)

5. Which of these is the smallest? A) 0.505 B) 0.055* C) 0.550 D) 0.515 (1 mark)

6. True or False: When rounding 4.56 to the nearest whole number, the answer is 4. (1 mark)

7. Write nine thousandths as a decimal. (1 mark)

8. Max buys a banana for £0.30 and an orange for £0.45. What is the total? A) £0.85 B) £0.70 C) £0.75* D) £0.65 (1 mark)

9. True or False: 1.25 is equal to 1 and one quarter. (1 mark)

10. Max has £1.00. He spends £0.25. How much does he have left? (1 mark)

Draw: Draw Max the monkey standing at a fruit stall with prices written as decimals on little wooden signs. Include a basket of strawberries priced at £2.49.



Extension challenge: Greater Depth Challenge: 1. Explain why 0.5 is equivalent to 0.500. 2. Compare 0.4 and 0.40—are they different? Justify your answer. 3. If Max has £10.00 and buys items costing £3.45, £2.10, and £1.99, how much change does he receive? 4. What might happen if we removed the decimal point from the number 5.67? 5. Create a word problem involving decimals that would require a partner to use column addition. 6. If a piece of string is 0.85 metres long, how many more centimetres are needed to make it exactly 1 metre long?